

**Appl. No.** : **10/531,548**  
**Filed** : **December 12, 2005**

### **THE CLAIMS**

1. (Currently amended) Light weight seating furniture construction, comprising:
  - a. a shell construction which is deformable under seating load, which construction consists of an approximately spherical multi-faceted skeleton of geometrically shaped air permeable shell shaping sheet elements manufactured from porous natural or plastic material having the property to spring back in its original shape, and wherein the shell construction is provided internally with a hollow internal space which is partially filled with
  - b. a number of relatively small shape-retaining particles for support and advancement of the temporary shape-retaining property of the shell construction once a person is seated thereupon, which particles are manufactured from natural or plastic material and which particles are optionally packed in a suitable air permeable cover.
2. (Previously presented) Light weight seating furniture construction with memory effect according to claim 1, wherein the shell structure is obtained with a plurality of geometrically shaped air permeable sheet elements together shaping the shell, which are mutually interconnected into a three-dimensional geometrical shell by adhesive so as to have increased stiffness at the interconnections.
3. (Previously presented) Light weight seating furniture construction with memory effect according to claim 1, wherein the high memory effect property of the shell is obtained by fully integrating the suitable different skeleton segments into the shell construction to form a three-dimensionally shaped geometrical skeleton.
4. (Previously Presented) Light weight seating furniture construction according to claim 1, wherein the geometrically shaped three-dimensional shell elements of the shell construction are provided with a geometrically polygonal shape

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5. (Currently amended) Light weight seating furniture construction according to claim 1, wherein the shell construction has the appearance of an imperfect sphere-shape of a tetrahedron, cube, octahedron, dodecahedron, icosahedron, truncated tetrahedron, cuboctahedron, truncated cube, truncated octahedron, small rhombicuboctahedron, great rhombicuboctahedron, snub cube, icosidodecahedron, truncated dodecahedron, truncated icosahedron, small or great rhombicosidodecahedron, or of a combined (~~hybrid~~)-shape thereof.

6. (Currently amended) Light weight seating furniture obtained by using the light weight seating furniture construction according claim 1, wherein said furniture is in the shape of a great playing ball or as a celestial body (~~globe, moon, etc.~~) and/or is provided on it external surface with one or more images, color area's, advertisements, or logos.

7. (Previously Presented) Light weight seating furniture obtained by using the light weight seating furniture construction according to claim 1, wherein geometrically shaped air permeable shell shaping sheet elements having an external diameter between 50 and 200 cm and a wall thickness of at least 3 to 20 cm.

8. (Previously presented) Light weight seating furniture construction according to claim 6, wherein the shell construction consists of a skeleton of a plurality of pentagonal and hexagonal elements joined at edges thereof with adhesive so as to have an increased stiffness at the interconnections.